| Inde | ex o | f Cla | nims |  |
|------|------|-------|------|--|
|      |      |       |      |  |

| Application | /Control No. |
|-------------|--------------|
|-------------|--------------|

10/517,234

GRUNER ET AL.

Applicant(s)/Patent under Reexamination

Examiner

Art Unit

Tri V. Nguyen

1751

| √ | Rejected |
|---|----------|
| = | Allowed  |

(Through numeral) Cancelled

Non-Elected N

Appeal

Objected

Restricted

| l | Interference |
|---|--------------|
|---|--------------|

| Interference |  | 0 |  |
|--------------|--|---|--|
|--------------|--|---|--|

|            |              | Щ            |              |                |          |              |              | L                 |               |          |   |          |          |          |          |           |          | L        | 1        |          |          | _               |     |          | ι        |                |
|------------|--------------|--------------|--------------|----------------|----------|--------------|--------------|-------------------|---------------|----------|---|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|-----------------|-----|----------|----------|----------------|
|            |              |              |              |                |          |              |              |                   |               | _        | ſ |          |          |          |          |           | _        |          |          |          |          | _               | Г   |          | Т        |                |
| Cla        | im           | Щ            |              |                |          | ate          | •            |                   |               | _        | ŀ | Cla      | ım       |          |          |           | 부        | ate      | ·        |          |          |                 | - 1 | Cla      | aim      | r              |
|            | <del>-</del> | ا ہا         |              | 1              | ı        |              | - 1          | ŀ                 |               |          |   | _        | a        | ĺ        | l        |           |          | ĺ        |          |          | - 1      | ı               |     | _        | क्न      |                |
| Final      | Original     | 9/13/06      |              | İ              |          |              | l            |                   |               |          |   | Final    | Original |          |          | - 1       |          |          |          | İ        |          |                 |     | Finat    | Original |                |
| ï <u>E</u> | ٦            | 9/1          |              |                |          |              |              |                   | ı             |          |   | iΞ       | اقا      |          |          |           |          |          |          |          |          |                 |     | iΞ       | 5        |                |
| L          |              |              |              |                |          |              |              |                   | _             | $\Box$   |   |          |          |          | ┙        | _         |          | _        | _        | _        | _        | _               | -   |          | 1        |                |
|            | 1            | 1            | Ш            | $\Box$         | _        |              |              | $\sqcup$          | _             |          |   |          | 51       | $\Box$   | _        | _         | _        |          | $\perp$  | _        | _        | _               |     |          | 101      | _              |
|            | 2            | 1            |              |                |          |              |              |                   | _             | _        | ļ |          | 52       |          | _        | _         | _        | _        | _        | _        | _        | _               |     |          | 102      |                |
|            | 3            | 1            |              |                |          |              |              |                   |               | _        |   |          | 53       |          |          |           |          |          |          |          | _        |                 | Į   |          | 103      |                |
|            | 4_           | 1            |              |                |          |              |              |                   |               |          |   |          | 54       |          |          | $\perp$   |          |          |          |          | $\perp$  | _               | Į   |          | 104      |                |
|            | 5            | 1            |              |                |          |              |              |                   |               |          |   |          | 55       |          |          |           |          | $\Box$   |          |          |          |                 | l   |          | 105      |                |
|            | 6            | ٧            |              |                |          |              |              | Į                 |               |          |   |          | 56       |          |          |           |          |          |          |          |          |                 | l   |          | 106      |                |
|            | 7            | 1            |              |                |          |              |              |                   |               |          |   |          | 57       |          |          |           |          |          |          |          |          |                 |     |          | 107      |                |
|            | 8            | 1            |              |                |          |              |              |                   |               |          |   |          | 58       |          |          |           |          |          |          |          |          |                 | l   | _        | 108      |                |
|            | 9            | 1            |              | T              |          |              |              |                   |               |          |   |          | 59       |          |          |           |          |          |          |          |          |                 |     |          | 109      |                |
|            | 10           |              |              |                |          |              |              |                   | _             |          |   |          | 60       |          |          |           |          |          |          |          |          |                 | [   |          | 110      |                |
|            | 11           | Г            |              | $\neg$         |          |              |              |                   |               |          |   |          | 61       |          |          | T         |          |          |          |          |          |                 |     |          | 111      |                |
|            | 12           | Г            | П            | T              |          |              |              |                   | $\neg$        |          |   |          | 62       |          |          |           |          |          | Ī        | Ī        |          |                 | [   |          | 112      |                |
|            | 13           |              | Ħ            |                |          |              |              |                   | $\neg$        |          |   |          | 63       |          | 1        | T         |          |          | ヿ        | T        | $\neg$   |                 |     |          | 113      |                |
|            | 14           |              | П            | $\neg$         |          |              |              |                   |               |          |   |          | 64       |          | $\neg$   |           |          |          |          |          |          |                 |     |          | 114      |                |
|            | 15           | T            |              |                |          |              |              | П                 |               |          |   |          | 65       |          | $\neg$   |           |          |          |          | $\neg$   | コ        |                 |     |          | 115      |                |
|            | 16           | <b></b>      | Н            | 寸              |          |              |              |                   | $\neg$        |          |   |          | 66       | П        | 寸        | ヿ         |          | $\neg$   | ヿ        | $\neg$   | $\neg$   | -               |     |          | 116      |                |
| <u> </u>   | 17           | ┪            | $\vdash$     | 寸              |          |              | Н            | $\neg$            | _             |          |   |          | 67       | П        | T        | $\neg$    |          | $\neg$   | $\neg$   | ヿ        | ヿ        |                 |     |          | 117      |                |
| 1          | 18           | 1            | $\vdash$     |                | _        | _            | Н            | Н                 | _             |          |   |          | 68       | Н        |          | _         |          |          | $\neg$   | ╗        |          |                 |     |          | 118      |                |
| -          | 19           | ╁╴           | H            | $\dashv$       |          |              | Н            | Н                 | $\neg$        | -        |   | -        | 69       | Н        | 一        | ╗         | _        |          | _        | _        |          | $\Box$          | - 1 |          | 119      |                |
|            | 20           | ┢            | $\vdash$     |                |          | -            | $\vdash$     | Н                 | $\neg$        | -        |   |          | 70       |          | t        | 寸         |          | _        | 一        | ╛        | ┪        |                 | Ì   |          | 120      |                |
| -          | 21           | -            | Н            | $\dashv$       |          | -            | $\vdash$     | Н                 |               |          |   |          | 71       | $\vdash$ | $\dashv$ | $\dashv$  | $\neg$   |          |          | 7        | $\neg$   |                 | - 1 | _        | 121      |                |
|            | 22           | ╁            | $\vdash$     | $\dashv$       |          | $\vdash$     | ┝╌           |                   |               | $\vdash$ |   |          | 72       | $\vdash$ | $\dashv$ | $\dashv$  | $\neg$   |          | _        |          | _        | _               |     |          | 122      |                |
|            | 23           | $\vdash$     | Н            | $\dashv$       |          | Н            | $\vdash$     | Н                 |               |          |   |          | 73       | H        | $\dashv$ |           |          |          | $\dashv$ | -        | $\neg$   | $\dashv$        |     | -        | 123      | $\vdash$       |
| $\vdash$   | 24           | ┢            | $\vdash$     | -              |          |              | $\vdash$     | H                 |               |          |   |          | 74       | H        | $\dashv$ | $\dashv$  |          | $\dashv$ |          | $\dashv$ | $\dashv$ | $\neg$          |     |          | 124      | _              |
|            | 25           | ┢┈           | Н            | $\dashv$       | _        |              | $\vdash$     | H                 |               | _        |   |          | 75       | Н        | ┪        | $\dashv$  | =        |          | $\neg$   |          |          |                 |     |          | 125      | -              |
| -          | 26           | ┝            | Н            | $\dashv$       |          |              |              | $\vdash$          |               |          |   |          | 76       | Н        | -        | $\dashv$  |          |          | $\dashv$ | -        | $\dashv$ | Н               |     |          | 126      | ┢              |
| <b>-</b>   | 27           | <del> </del> | Н            | $\dashv$       |          |              | $\vdash$     | $\vdash$          |               |          |   |          | 77       | Н        | -        | -         | -        | -        | $\dashv$ | $\dashv$ | $\neg$   |                 |     |          | 127      |                |
| -          | 28           | ╁            | Н            | $\dashv$       |          | H            | $\vdash$     | $\vdash$          |               |          |   | -        | 78       | Н        | $\dashv$ |           | -        | $\vdash$ | $\dashv$ | $\dashv$ |          |                 |     |          | 128      | -              |
| -          | 29           | ╁            |              | $\dashv$       |          | $\vdash$     | -            | Н                 |               | $\vdash$ | l |          | 79       | Н        | $\dashv$ | -         | _        | $\vdash$ |          | $\dashv$ | $\dashv$ | $\dashv$        |     |          | 129      |                |
| -          | 30           | ┢            | $\vdash$     | -              |          | <u> </u>     | -            | Н                 |               |          | l |          | 80       | $\vdash$ | -        | $\dashv$  | -        | Н        | -        | $\dashv$ | ┪        |                 |     |          | 130      | $\vdash$       |
| -          | 31           | ╁            | $\vdash$     |                |          | ⊢            |              | -                 |               | -        |   |          | 81       | -        | $\dashv$ | $\dashv$  | -        | -        |          | $\dashv$ |          | Н               |     |          | 131      | -              |
|            | 32           | ⊢            | Н            | -              |          | -            | -            | -                 |               | -        |   |          | 82       | Н        | $\dashv$ | -         |          |          |          | -        | $\dashv$ | Н               |     |          | 132      | $\vdash$       |
| -          |              | ├            |              |                | -        |              | ⊢            | $\vdash$          | -             |          |   |          | 83       | Н        |          | _         |          |          |          |          | -        |                 |     |          | 133      | ┢              |
| -          | 33           | ╀            | $\vdash$     |                |          | ⊢            | -            | -                 | _             | -        | ł |          | 84       | $\vdash$ | -        | -         | _        | -        |          |          |          |                 |     |          | 134      | ⊢              |
| -          | 34           | $\vdash$     | $\vdash$     |                |          | -            | ├-           | $\vdash$          |               | ├—       | ł |          | 85       | Н        | $\dashv$ |           |          | H        |          | -        | $\dashv$ | $\vdash$        |     | -        | 135      | ┢              |
|            | 35           | $\vdash$     | $\vdash$     | $\vdash$       |          | ├—           | -            | $\vdash$          | <del>  </del> | $\vdash$ | 1 | <u> </u> |          | Н        | H        | _         | H        | $\vdash$ | $\vdash$ |          | ႕        | $\vdash$        |     |          | 136      | $\vdash$       |
|            | 36           | ╀-           | $\vdash$     | $\vdash\vdash$ |          | <del> </del> | -            | H                 | $\vdash$      | -        | 1 | -        | 86<br>87 | Н        | $\vdash$ | $\dashv$  | $\vdash$ | H        | $\vdash$ | -        |          | $\vdash \vdash$ |     |          | 137      | $\vdash$       |
|            | 37           | $\vdash$     | -            |                |          | -            | -            | -                 | l—            |          | 1 | -        |          |          |          |           | _        | _        |          | $\dashv$ | _        |                 |     |          | 138      | ⊢              |
|            | 38           | ┢            | -            |                |          | ├—           | _            | $\vdash$          | <u> </u>      | -        |   | -        | 88       | H        |          |           | _        | <u> </u> |          |          |          | H               |     |          | 139      | ├              |
|            | 39           | 1            | <b>—</b>     | Щ              |          | <del> </del> | _            | $\vdash$          | ļ             | $\vdash$ | ł |          | 89       | H        | H        | $\vdash$  | -        | $\vdash$ | $\vdash$ | $\vdash$ | _        | $\vdash$        |     |          |          | $\vdash$       |
|            | 40           | ├-           | <b>—</b>     | Щ              |          | <u> </u>     | $\vdash$     | <b> </b>          | <u> </u>      | <u> </u> | ł | <u> </u> | 90       | <b>├</b> | $\dashv$ | $\square$ | <u> </u> | <u> </u> | <u> </u> | Н        |          | $\vdash$        |     |          | 140      | <del> </del> — |
|            | 41           | 1            |              |                |          | ├            | <del> </del> | $\vdash$          | <u> </u>      |          | ł | <u> </u> | 91       |          | Щ        |           |          | L        | ļ        | Н        |          | -               |     |          | 141      | <del> </del>   |
| L          | 42           | ـ            | $\vdash$     |                |          | <u> </u>     | <u> </u>     | H                 | <u> </u>      | <u> </u> | ł | <u> </u> | 92       |          | $\vdash$ | $\square$ | $\vdash$ | $\vdash$ | Щ        | $\vdash$ |          | $\vdash \vdash$ |     |          | 142      | -              |
| <u> </u>   | 43           | 4_           | $oxed{oxed}$ |                |          | <u> </u>     | <u> </u>     | <u> </u>          | <u> </u>      |          | 1 | <u> </u> | 93       | <u> </u> | Ь        |           | Щ.       |          | _        | Щ        |          | H               |     |          | 143      | $\vdash$       |
| -          | 44           | 1_           | <u> </u>     | _              |          | ــــا        | ऻ_           | _                 | <u> </u>      | <u> </u> | 1 | <u> </u> | 94       | <b> </b> | Ш        |           | <u> </u> | ļ        | _        |          |          |                 |     |          | 144      | $\vdash$       |
|            | 45           | ↓_           | $\vdash$     | Щ              |          | <u> </u>     | <u> </u>     | <u> </u>          | <u> </u>      | <b> </b> | ł | <u> </u> | 95       | <b>-</b> | $\vdash$ |           | <u> </u> | $\vdash$ | <u> </u> | Щ        |          | $\vdash$        |     |          | 145      | ├              |
|            | 46           | _            |              |                | <u>L</u> | <u> </u>     | <u> </u>     | $ldsymbol{f eta}$ | <u> </u>      | <u> </u> | Į | <u> </u> | 96       |          | Ш        |           | L        | ╙        | L_       | Ш        |          | $\vdash$        |     | <u> </u> | 146      | $\vdash$       |
| -          | 47           | 1            | 1            |                | Į        | į .          | ŀ            | l                 | l             | į.       | İ | l        | 97       | l l      | li       |           | !        |          | !        |          |          |                 |     | l        | 147      | 1              |

98

99 100

| Claim |                   | Date       |          |          |          |          |                 |          |  |                 |  |
|-------|-------------------|------------|----------|----------|----------|----------|-----------------|----------|--|-----------------|--|
| Finat | Original          |            |          |          |          |          |                 |          |  |                 |  |
|       | 101               |            |          |          |          |          |                 |          |  |                 |  |
|       | 102               |            |          |          |          |          |                 |          |  |                 |  |
|       | 103               |            |          |          |          |          |                 |          |  | Ц               |  |
|       | 104<br>105        |            |          |          |          |          |                 |          |  |                 |  |
|       | 105               |            |          |          | $\Box$   |          |                 |          |  |                 |  |
|       | 106               |            |          |          | _        |          |                 |          |  | _               |  |
|       | 107               | Ш          |          |          | _        |          |                 |          |  | _               |  |
|       | 108               | _          |          | -        |          | _        |                 | _        | $\dashv$   | ႕               |  |
|       | 109               |            |          |          |          |          |                 |          |  | $\dashv$        |  |
|       | 110<br>111        | Н          |          | _        |          |          |                 |          | $\vdash$   | -               |  |
|       | 111               |            |          | Н        |          |          |                 | _        | Н  | $\dashv$        |  |
|       | 112<br>113        | _          |          | $\vdash$ | _        | _        |                 |          |  |                 |  |
|       | 114               |            |          | $\vdash$ |          |          |                 |          | Н  |                 |  |
|       | 115               |            |          |          |          | _        |                 |          | _  | $\dashv$        |  |
|       | 116               | H          | _        |          |          |          | -               | -        | $\vdash$   | $\dashv$        |  |
|       | 117               | H          |          | $\vdash$ |          | _        | -               |          |  | Н               |  |
|       | 118               | <u> </u>   |          |          | _        | _        | -               |          |  | П               |  |
|       | 118<br>119        | -          | $\vdash$ |          |          | _        | ┪               | Н        |  |                 |  |
|       | 120               |            |          | _        |          |          | _               |          |  |                 |  |
|       | 121<br>122        |            | <u> </u> |          |          |          | $\vdash$        |          |  |                 |  |
|       | 122               |            |          |          |          |          |                 |          |  | П               |  |
|       | 123               | $\vdash$   |          |          |          |          |                 |          |  |                 |  |
|       | 123<br>124<br>125 |            |          |          |          |          |                 |          |  |                 |  |
|       | 125               |            |          |          |          |          |                 |          |  |                 |  |
|       | 126               |            |          |          |          |          |                 |          |  |                 |  |
|       | 127               |            |          |          |          | <u> </u> | <u> </u>        |          |  | Ш               |  |
|       | 126<br>127<br>128 |            |          |          | L_       | _        | L               |          |  | Ш               |  |
|       | 129<br>130<br>131 |            |          | _        | <u> </u> | _        | _               | _        | _  | Щ               |  |
|       | 130               | _          | ┞_       | ļ        |          | <u> </u> | _               | <u> </u> | <u> </u>   | Ш               |  |
|       | 131               |            | ļ        | <u> </u> | <u> </u> | <u> </u> | <u> </u>        | <u> </u> | _  | Щ               |  |
|       | 132               | _          |          | -        |          |          | -               | ├        | ⊢  | $\vdash \vdash$ |  |
|       | 133               | ┢          |          | <u> </u> | -        | ŀ        | ⊢               | ├        |  | Н               |  |
|       | 134<br>135        | ┢          | ┢        | -        | $\vdash$ | $\vdash$ | ⊢               | ⊢        | ┢  | Н               |  |
|       | 136               | -          | ├        | -        | $\vdash$ | -        | ┝               | ┢        | -  | Н               |  |
|       | 137               | $\vdash$   | ┢        | ┢        | $\vdash$ | ┢        | $\vdash$        | $\vdash$ | -  | Н               |  |
|       | 137<br>138        | ┢╌         |          | ┢╌       | -        | $\vdash$ | -               | ┪        | ┢  | Н               |  |
| _     | 139               | $t^-$      | $\vdash$ | -        | ┢        |          | ┢               | Г        | <del>                                     </del> | H               |  |
| -     | 140               | t          | T        | T        | t        |          | Г               | Г        | Т  | П               |  |
|       | 141               | $I^-$      | T        |          | 1        | Π        | t               | T        | Π  |                 |  |
|       | 142               | $\vdash$   | Г        | Π        |          |          |                 |          |  |                 |  |
|       | 143               |            |          | Ī        |          |          | П               |          |  |                 |  |
|       | 144               |            |          |          |          |          |                 |          |  |                 |  |
|       | 145               |            |          |          |          |          |                 |          |  |                 |  |
|       | 146               |            |          |          |          |          |                 |          |  |                 |  |
|       | 147               |            |          | 匚        | Ĺ        |          | Ĺ               | $\Box$   | $\Box$   |                 |  |
|       | 148               | <u> </u>   | <u> </u> | <u> </u> | 1_       | <u> </u> | $oxed{igspace}$ | $\perp$  | _  | Ш               |  |
|       | 149               | <b> </b> _ | _        | Ļ        | <u> </u> | <u> </u> | $oxed{oxed}$    | _        | Ļ  | Ц               |  |
|       | 150               | <u>L</u>   | <u> </u> | <u> </u> | 乚        |          | 乚               | L        |  |                 |  |

48 49

50